```
NNN
NNN
                    NNN
                                        NNN
NNN
              NNN
NNN
              NNN
NNN
              NNN
NNN
              NNN
                           MMM
MMM
MMM
NNNNN
              NNN
NNNNN
              NNN
NNNNNN
              NNN
              NNN
NNN
      NNN
NNN
NNN
NNN
          NAMA
NAMANA
NAMANA
NAMANA
NAMANA
NAMA
NAMA
       NNN
NNN
NNN
NNN
NNN
NNN
                                        LLL
NNN
NNN
              NNN
NNN
NNN
                                        NNN
NHN
NNN
                                  MMM
```

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Ps NP

NP

**\$**G

\$01

NP

PA

\_\_\_\_

NN NN NN NN NN NN NNN NN NNNN NN NN NN N	MM MM MMM MMM MMMM MMMM MMMM MMMM MM MM		MM MM MMMM MMMM MMMMM MMMM MM MM MM MM MM	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	NN NN NN NN NN NN NNN NN NNNN NN NN NN N	•••
		\$				

.

NML VO4

0 %TITLE 'Network Management Listener main module'
0 MODULE NML\$MAIN (MAIN = NML\$MAIN, ADDRESSING MODE (NONEXTERNAL=GENERAL),
ADDRESSING MODE (EXTERNAL=GENERAL),
IDENT = 'V04-000') =

BEGIN

1 1\*

1 !\*

1 !\*

1 1+

1 1+

1 1 \* 1 \*

1 1\*

I 🛊

1 🛊

0002

8000 0009

0010

0011 0012

0014 0015

0016

0017

0018 0019 0020

0021

0022 0023 0024

0025

0026 0027

0028 0029 0030

0031

0039

0040

0041 0042 0043

0045

0046 0047

0048 0049

0050

0051

0052 0053

0054

0055 0056

0057

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15-Sep-1984 23:57:11 14-Sep-1984 12:50:12

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FACILITY: DECnet-VAX V2.0 Network Management Listener

ABSTRACT:

This is the main module for NML.

ENVIRONMENT: VAX/VMS Operating System

AUTHOR: Distributed Systems Software Engineering

CREATION DATE: 1-0CT-1979

MODIFIED BY:

3-Jan-1984 V03-004 MKP0005 Kathy Perko

Convert old \$TRNLOG to new \$TRNLNM system service for

translating logical names.

V03-003 MKP0004 21-April-1983 Kathy Perko Delete service functions from NML.

Kathy Perko 1-March-1983 V03-002 MKP0003 Get rid of extra NET: channel to NETACP which was used

```
15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
NMLSMAIN
                                                                                                                                       VAX-11 Bliss-32 V4.0-742 P2
DISK$VMSMASTER: [NML.SRC]NMLMAIN.B32;1
                        Network Management Listener main module
                                                                                                                                                                                               Page
V04-000
                        Declarations
    1 %SBTTL 'Declarations'
                        0087
                        0088
                        0089
                                     ! TABLE OF CONTENTS:
                        0090
                        0091
                        0092
                                    FORWARD ROUTINE
                                           NMLSMAIN
                                                                         : NOVALUE,
                                          NML_COMMANDS

NML_INITIALIZE,

NML_CONNECT,

NML_VALIDLINK,

NML_GETMODE

NML_RECEIVE,

NML_RESPONSE:
                        0094
                                                                         : NOVALUE,
                        0096
0097
                        0098
                                                                         : NOVALUE,
                        0099
                                                                                                    Receive NICE message over link
                        0100
                                                                                                  ! Send message respoñse over link
                                                                         NOVALUE;
                        0101
                        0102
0103
                                       INCLUDE FILES:
                        0104
    106
107
                        0105
                                 LIBRARY 'LIB$:NMLLIB';
LIBRARY 'SHRLIB$:NMALIBRY';
LIBRARY 'SHRLIB$:NET';
LIBRARY 'SYS$LIBRARY:STARLET';
                                                                                                    Facility-wide definitions
NICE definitions
NETACP QIO interface
                        0106
    108
                        0107
    109
                        0108
    110
111
                        0109
                                                                                                    VMS common definitions
                        0110
    112
                        0111
                        0112
                                       NML mode symbols (set in NML$B_MODE)
   114
                       0114
0115
0116
0117
    116
                                 1 LITERAL
   117
                                          NMLS INIT
                                                              = 0,
                                                                         ! Initializing
                                                                         ! Started via connect
   118
                                          NML$ CONNECT = 1:
    119
                        0118
   120
123
123
125
127
128
128
133
133
133
133
136
137
138
130
                        0119
                       0120
0121
0122
0123
0124
0125
0126
0127
                                       OWN STORAGE:
                                    BIND
                                          NML_VERSION = UPLIT BYTE (NML$K_VERSION, NML$K_DEC_ECO, NML$K_USER_ECO);
                                    OWN
                        0128
0129
0130
                                          NML$B_MODE
                                                                        INITIAL (NML$_INIT), ! NML mode of operation
                                          NML$L_CMDNCBLEN,
NML$W_CMD_CHAN: WORD,
NML$A_NCBADDRESS,
                                                                                                    Length of NCB data
                                                                                                    Channel to logical link to NCP
Address of NCB
Address of optional NCB data field
                        0131
                        0132
0133
                                          NML$A_NCBDATA, ! Address of NML$Q_SRVIDDSC: BLOCK [8,BYTE], ! Descriptor NML$AB_RCVBUFFER: VECTOR [nml$k_rcvbflen, BYTE];
                                                                                                     Descriptor of autoservice NCB
                                                                                                                          ! Message buffer
                        0136
                                       EXTERNAL REFERENCES:
                        0139
    141
                        0140
                        0141
                                    EXTERNAL ROUTINE
                                          NML$INITIALIZE.
                                                                                                 ! Initialize NICE processor
```

VO

NML\$MAIN V04-000 Network Management Listener main module Declarations VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER:[NML.SRC]NMLMAIN.B32;1 0143 1 0144 1 0145 1 NML\$PROCESS\_NICE:
NML\$TERMINATE:
LIB\$ASN\_WTH\_MBX; 144 145 146 NOVALUE, ! Process a single NICE message ! Terminate NICE processor ! Assign channel with mailbox

NM VO

```
NMLSMAIN
                                                                               15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
                                                                                                             VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[NML.SRC]NMLMAIN.B32;1
                    Network Management Listener main module
V04-000
                    NML$MAIN Main routine
                             %SBTTL 'NML$MAIN Main routine'
   149
151
153
153
157
158
159
160
                   0146
0147
0148
0149
0151
0152
0153
0155
0156
0157
                              ROUTINE NML$MAIN : NOVALUE =
                              ! FUNCTIONAL DESCRIPTION:
                                       This is the main routine for the DECnet-VAX Network Management
                                       Listener (NML).
                                ROUTINE VALUE: COMPLETION CODES:
                    0158
                                       Always returns NML$_STS_SUC.
                    0159
   161
   162
                    0160
                    0161
                   0162
   164
                             BEGIN
   165
   166
167
                   0165
                                Determine how we were initiated.
                   0166
0167
   168
   169
                             IF NML_INITIALIZE () THEN BEGIN
                   0168
0169
0170
   171
172
173
174
175
176
177
                                  NML COMMANDS ();
NML STERMINATE();
                                                                      ! NICE command mode
                                                                     ! Terminate NICE processor
                    0171
                                  END:
                             $EXIT (CODE = TRUE);
                   0174
                   0175
                           1 END;
                                                           ! End of NML
                                                                                            .TITLE NMLSMAIN Network Management Listener main modul
                                                                                            .IDENT \V04-000\
                                                                                            .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                     04 00000 P.AAA: .BYTE
                                                                00
                                                                                                     4, 0, 0
                                                                                            .PSECT SOWNS, NOEXE, 2
                                                                          00000 NML$B_MODE:
                                                                                            .BYTE
                                                                          00004 NML$L_CMDNCBLEN:
                                                                                            .BLKB
                                                                          00008 NML$W_CMD_CHAN:
                                                                          OOOOC NML$A_NCBADDRESS:
                                                                          00010 NML$A_NCBDATA:
                                                                                             BLKB
                                                                          00014 NML$Q_SRVIDDSC:
                                                                                            .BLKB
                                                                          0001C NML$AB_RCVBUFFER:
```

V0

42

;

```
K 13
15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
NML$MAIN
V04-000
                        Network Management Listener main module NMLSMAIN Main routine
                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[NML.SRC]NMLMAIN.B32;1
                                                                                                                                                                                               Page
                                                                                                                                                                                                         - 6
                                                                                                                  .BLKB
                                                                                                                              512
                                                                                                                              P.AAA
NML$INITIALIZE, NML$PROCESS_NICE
NML$TERMINATE, LIB$ASN_WTH_MBX
SYS$EXIT
                                                                                                     NML_VERSION=
                                                                                                                  .EXTRN
.EXTRN
.EXTRN
                                                                                                                  .PSECT $CODE$,NOWRT.2
                                                                                     0000 00000 NML$MAIN:
                                                                                                                              Save nothing
#0, NML_INITIALIZE
R0, 1$
#0, NML_COMMANDS
#0, NMLSTERMINATE
                                                                                                                   .WORD
                                                                                                                                                                                                     0147
                                                                                       FB 00002
E9 00009
FB 0000C
                                           V0000000V
                                                                                                                  CALLS
                                                                                  00
50
00
01
01
                                                                                                                                                                                                      0167
                                                            ÕĚ
                                                                                                                  BLBC
                                           00000000V
00000000G
                                                                                                                                                                                                     0169
0170
                                                                                                                  CALLS
                                                                                        FB 00013
                                                            00
                                                                                                                  CALLS
                                                                                                                              #1, SYS$EXIT
                                                                                        DD 0001A 15:
                                                                                                                  PUSHL
                                                                                                                                                                                                      0173
                                           0000000G 00
                                                                                        FB 0001C
                                                                                                                  CALLS
                                                                                        04
                                                                                            00023
                                                                                                                  RET
                                                                                                                                                                                                     0175
; Routine Size: 36 bytes,
                                              Routine Base: $CODE$ + 0000
```

```
13
                                                                            15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
                                                                                                         VAX-11 Bliss-32 V4.0-742 PEDISK$VMSMASTER: [NML.SRC]NMLMAIN.B32;1
NMLSMAIN
                   Network Management Listener main module
V04-000
                   NML_COMMANDS Main command processing routine
                   0176
0177
0178
0179
                             %SBTTL 'NML_COMMANDS Main command processing routine' ROUTINE NML_COMMANDS: NOVALUE =
180
    181
    182
183
                   0180
                             ! FUNCTIONAL DESCRIPTION:
                   0181
0182
0183
    184
    185
                                      This routine is the main command processing routine. NICE messages
    186
187
                                      are parsed to determine the requested function and then the proper
                   0184
0185
                                      routine is called to perform the function.
    188
                   0186
0187
    189
    190
191
192
193
194
195
                   0188
                             BEGIN
                   0189
                   0190
                             LOCAL
                   0191
                                                VECTOR [2].
                                 desc:
                                                                              Message descriptor
                   0192
0193
                                 status;
                                                                             ! Temporary status
    196
197
                   0194
    198
                   0195
                               Receive NICE messages and perform valid functions as long as the link
                   0196
0197
    199
                               is active.
    200
    201
                   0198
    202
                   0199
                             WHILE TRUE
                   0200
                             DO
    204
                   0201
                                 BEGIN
                   0202
    205
                                 desc [1] = nml$ab_rcvbuffer;
    206
                                 status = nml_receive (.desc [1],
                   0204
0205
0206
0207
0208
0209
0210
    207
                                                                nml$k rcvbflen,
desc [0]);
    208
    209
                                 If .status
   210
                                 THEN
                                      nml$process_nice(desc, nml_response)
   212
213
214
215
                               If the message received was too large for the buffer then send a status
                   0212
                               message indicating the error. Any other errors indicate that the link
   216
                   0213
                               has been broken and NML should exit.
   217
218
219
                   0214
                   0215
0216
0217
                                 ELSE
   BEGIN
                   0218
                                                                           ! If normal exit (via link DASSGN
                                      IF .STATUS EQLU SS$_LINKABORT
                   0219
                                           OR .STATUS EQLU SS$_LINKDISCON
                                                                                      ! or formal disconnect)
                                      THEN
                   0221
                                           RETURN:
                                                                            ! then exit successfully
                                      IF .STATUS EQLU SS$_DATAOVERUN ! If message was too large,
                   0224
                                      THEN
                                           NML_RESPONSE(UPLIT(1, UPLIT BYTE(NMASC_STS_SIZ))) ! Send size error
                   0226
0227
                                      ELSE
                                           SIGNAL_STOP (.STATUS);
                                                                            ! Signal fatal error
                   0228
                                      END:
                          3
2
1 END;
                   0229
                   0230
                                 END:
                   0231
```

NF

VC

VC

.PSECT \$PLIT\$, NOWRT, NOEXE, 2

FC 00003 P.AAC: 0000001 00004 P.AAB: 00000000 00008 .BYTE -4 .LONG 1 .ADDRESS P.AAC

			.PSECT	\$CODE\$,NOWRT,2	
	53 00000000v 5E	000C 00000 NML_C	COMMANDS: .WORD MOVAB SUBL2	Save R2,R3 NML_RESPONSE, R3 #8, SP	: 0177
04	ĄĘ 00000000	00 9E 0000C 1S:	MOVAB	NML\$AB_RCVBUFFER, DESC+4	: 0202
0000000v	7E 0200 0C 00 52 0E	5E DD 00014 8F 3C 00016 AE DD 0001B 03 FB 0001E 50 D0 00025	PUSHL MOVZWL PUSHL CALLS MOVL	SP #512, -(SP) DESC+4 #3, NML_RECEIVE RO, STATUS	0205
0000000G	00 04	52 E9 00028 53 DD 0002B AE 9F 0002D 02 FB 00030 D3 11 00037	BLBC PUSHL PUSHAB CALLS BRB	STATUS, 2\$ R3 DESC #2, NML\$PROCESS_NICE 1\$	0206
000020E4	8F	52 D1 00039 28:	CMPL	STATUS, #8420	: 0218
000050EC	8F	52 D1 00039 28: 28 13 00040 52 D1 00042 1F 13 00049	BEQL CMPL BEQL	4\$ STATUS, #8428 4\$	0219
00000838	8F	52 D1 0004B	CMPL	STATUS, #2104	: 0223
	63 00000000	0B 12 00052 00 9F 00054 01 FB 0005A AD 11 0005D	BNEQ PUSHAB CALLS BRB	3\$ P.AAB #1, NML_RESPONSE 1\$	0225
0000000G	00	52 DD 0005F 3\$: 01 FB 00061	PUSHL CALLS	STATUS #1, LIB\$STOP	0227
		A2 11 00068 04 0006A 4\$:	BRB RET	15	0199

; Routine Size: 107 bytes, Routine Base: \$CODE\$ + 0024

```
N 13
15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
NMLSMAIN
                                                                                                                 VAX-11 Bliss-32 V4.0-742 PDISK$VMSMASTER:[NML.SRC]NMLMAIN.B32;1
                     Network Management Listener main module
V04-000
                     NML_INITIALIZE Initialization routine
                               %SBTTL 'NML_INITIALIZE Initialization routine' ROUTINE NML_INITIALIZE =
    FUNCTIONAL DESCRIPTION:
                                          This is the initialization routine for the DECnet-VAX Network
Management Listener. This module establishes (accepts) the logical
                                          link connection to NCP and initializes the data bases.
                                  ROUTINE VALUE: COMPLETION CODES:
                                          System service error is returned if initial assign for command link
                                          fails. Subsequent system service failures cause a resource error (NML$_STS_RES) to be returned. If the connect data is invalid or incompatible a compatibility error (NML$_STS_MVE) is returned.
                                          If the connect accept fails a network error code is returned.
                                    BEGIN
                                    LOCAL
                                          INI_IOSB : $10SB.
                                                                                     Connect/reject I/O status block
                                         NCB_DSC : DESCRIPTOR.
                                                                                     Connect NCB descriptor
                                          STATUS:
                                                                                   ! Temporary status
    264
265
                     0261
                                  Determine the mode in which NML is running.
    266
267
                     0262
                                    NML_GETMODE ();
                     0264
    268
270
271
272
273
274
277
278
279
                     0265
                                  Dispatch to proper initialization routine.
                     0266
                     0267
                                    SELECTU .NML$B_MODE OF
                     0268
                     0269
0270
0271
0272
0273
                                         [NML$_CONNECT]:
                                              STATUS = NML_CONNECT ();
                                         [OTHERWISE]:
                     0274
                                              STATUS = NML$_STS_MPR;
    280
281
                     0276
0277
                                         TES:
                     0278
0279
    282
283
                                    RETURN .STATUS
                                                                                   ! Return status code
    284
                     0280
    285
                     0281
                                    END:
                                                                                   ! End of NML_INITIALIZE
```

OOOC OOOOO NML\_INITIALIZE:

10 C2 00002

Save R2,R3 .WORD SUBL 2 #16, SP

5E

0234

VC

NMLSMAIN VO4-000	Network Management Lis NML_INITIALIZE Initial	tener main modu ization routine	l <b>e</b>	15-1 14-1	14 Sep-1984 23:57 Sep-1984 12:50	:11	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[NML.SRC]NM	Page 10 ILMAIN.B32;1 (5)
	0000000v	01	00 ( 01 ( 53 (	FB 00005 9A 0000C DO 00013 91 00016 12 00019 D4 0001B	CALLS MOVZBL MOVL CMPB BNEQ	NML\$B #1, R R3, #	·	0263 0267 0269
	0000000v	00 03 50	00 52	FB 00010	MOVL CMPB BNEQ CLRL CALLS BLBC MNEGL S: RET	#0, N R2, 2 #10,	IML_CONNECT S Status	0271 0273 0275 0281
; Routine Size	e: 43 bytes. Routine	Base: \$CODE\$ +	008	F				

: 286 0282 1

```
15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
NMLSMAIN
                  Network Management Listener main module
                                                                                                     VAX-11 Bliss-32 V4.0-742
V04-000
                  NML_CONNECT Connect routine
                                                                                                     DISK$VMSMASTER:[NML.SRC]NMLMAIN.B32:1
   289012345678901234567
289012345678901234567
                           XSBITL 'NML_CONNECT Connect routine'
                           ROUTINE NML CONNECT =
                  0285
                  0286
                  0287
                             FUNCTIONAL DESCRIPTION:
                  0288
                  0289
                                    This establishes (accepts) the logical link connection to the
                  ÇŽŠÓ
                                    command process.
                  0291
                  0292
                             IMPLICIT OUTPUTS:
                                    NML$W_CMD_CHAN Channel number for logical link to NCP
                  0294
                  C295
                             ROUTINE VALUE:
                  0296
                             COMPLETION CODES:
                  0297
                  0298
                                    System service error is returned if initial assign for command link
                  0299
                                     fails. Subsequent system service failures cause a resource error
                  0300
                                    (NML$_STS_RES) to be returned. If the connect data is invalid or incompatible a compatibility error (NML$_STS_MVE) is returned.
                  0301
                  0302
                                    If the connect accept fails a network error code is returned.
   308
   309
                  0304
                         1!--
   310
                  0305
   311
                  0306
                           BEGIN
   312
313
                  0307
                  0308
                           LOCAL
   314
                  0309
                                INI_IOSB : $10SB,
                                                                ! Connect/reject I/O status block
   315
                  0310
                                NCBDSC : DESCRIPTOR.
   316
                  0311
                                STATUS:
                                                                         ! Temporary status
                  0312
   317
   318
                             Assign channel for link to command process
   319
                  0314
   P 0315
                           STATUS = $ASSIGN (DEVNAM = XASCID ' NET:'
                  0316
                                                CHAN
                                                     = NML$W_CMD_CHAN);
                  0317
                           IF .STATUS THEN
                  0318
                                BEGIN
                  0319
                  0320
                                  Check optional connect data for compatibility
                  0321
                  0322
                                STATUS = NML_VALIDLINK ();
NCBDSC [DSC$A_POINTER] = .NML$A_NCBADDRESS;
                  0323
                  0324
0325
                                IF .STATUS THEN
                                    BEGIN
                  0326
0327
                                      Set up NCB to accept the connection. Add three bytes of version
                  0328
                                      number to the NCB that was received. Also use the length of the
                  0329
                                      received NCB.
                  0330
                                    CHSWCHAR A (3, NMLSA NCBDATA);
IF CHSEQE (3, UPLIT BYTE (2,0,0),
3, NMLSA NCBDATA) THEN
                  0331
                  0332
                  0333
                                         CHSMOVE (3, UPLIT BYTE (2,0,0), .NMLSA_NCBDATA)
                  0334
                  0335
                                    ELSE
   341
                  0336
                                         CHSMOVE (3, NML_VERSION, .NMLSA_NCBDATA);
                  0337
                                    NCBDSC [DSC$W_LENGTA] = .NML$L_CMDNCBLEN;
                  0338
                  0339
                                    ! Accept connection to command process.
```

```
15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
NMLSMAIN
                   Network Management Listener main module
                                                                                                             VAX-11 Bliss-32_V4.0-742
V04-000
                   NML CONNECT Connect routine
                                                                                                             DISK$VMSMASTER:[NML.SRC]NMLMAIN.B32:1
                   0341
0342
0343
                                       STATUS = $QIOW (CHAN = .NML$W_CMD_CHAN, FUNC = IO$_ACTESS, IOSB = INI_IOSB,
                 P
                 P
                   0344
                                                               = NCBDSC):
                                       IF .STATUS THEN
                                            STATUS = .INI_IOSB [IOS$W_STATUS]; ! Network error
                                       END
   354
355
                                  ELSE
                    0350
                                       BEGIN
   356
357
358
359
                                          Reject connection due to incompatibility. Add one byte reject code
                                          to the received NCB.
                                       CH$WCHAR_A (1, NML$A_NCBDATA);
CH$WCHAR (.STATUS / 2, .NML$A_NCBDATA);
NCBDSC [DSC$W_LENGTH] = .NML$E_CMDNCBLEN;
   360
   361
                   0356
                   0357
   362
   363
                   0358
                                       $QIOW (CHAN = .NML$W_CMD_CHAN, | Channel | FUNC = IO$_ACCESS OR IO$M_ABORT, | Reject function code | Reject NCB
   364
365
                   0359
                   0360
   366
                   0361
   367
                   0362
   368
                   0363
   369
                   0364
                                  END:
   370
                   0365
   371
                   0366
                             RETURN .STATUS
                                                                     ! Return status code
   372
373
                   0367
                   0368
                             END:
                                                                     ! End of NML_CONNECT
                                                                                            .PSECT $PLIT$,NOWRT,NOEXE,2
                                                                                            .ASCII \_NET:\<0><0><0>
                                       00
                                            00 3A 54 45 4E 5F
                                                                          0000C P.AAE:
                                                              010E0005
                                                                          00014 P.AAD:
                                                                                                     17694725
                                                                                            .LONG
                                                              00000000
                                                                                            .ADDRESS P.AAE
                                                                          00018
                                                                                                      2, 0, 0
                                                                    02
02
                                                                          0001C P.AAF:
                                                                00
                                                                                            .BYTE
                                                                          0001F P.AAG:
                                                                ŎŎ
                                                                                            .BYTE
                                                                                            .EXTRN SYSSASSIGN, SYSSQIOW
                                                                                            .PSECT $CODE$, NOWRT, 2
                                                                    O7FC 00000 NML_CONNECT:
                                                                                                      Save R2,R3,R4,R5,R6,R7,R8,R9,R10
                                                                                                                                                               0284
                                                                                            .WORD
                                                                                                      SYS$QIOW, R10
P.AAD, R9
                                                5A 00000000G
                                                                       9E 00002
                                                                                            MOVAB
                                                                       9E 00009
                                                59 00000000
                                                                  00
                                                                                            MOVAB
                                                                      9E 00010
C2 00017
7C 0001A
                                                                  ŎŎ
                                                58 000000000
                                                                                            MOVAB
SUBL2
                                                                                                      NMLSA NCBDATA, R8
                                                                                                     #16, SP
-(SP)
                                                                  10
                                                                  ŻĚ
A8
                                                                                                                                                               0316
                                                                                            CLRQ
                                                                       9F 0001C
                                                           F8
                                                                                            PUSHAB
                                                                                                      NMLSW_CMD_CHAN
                                                                  59
                                                                       DD 0001F
                                                                                            PUSHL
                                                                 04
50
56
00
                                                                      FB 00021
D0 00028
                                   0000000G
                                                                                                      #4, SYSSASSIGN
                                                                                            CALLS
                                                56
                                                                                                      RO, STATUS
                                                                                            MOVL
                                                                                                      STATUS, 3$
                                                                       Ě9
                                                                                                                                                               0317
0322
                                                                          0002B
                                                                                            BLBC
```

FB 0002E

#0, NML\_VALIDLINK

CALLS

0000000v

ÕÕ

NM

NMLSMA VO4-00		Network Manage NML_CONNECT C	ment Listener onnect routine	main module	·	13 (6)
			04 AE 50 57 6E 55 40 60	FC A8 68 F4 A8 57 F8 A8 56	0	0323 0331 0337 0344 0324 0331
	64	64 18	08 A9 00	F8 A8 56 03 68 03 08 08 A9		0333 0332 0334
	64	18	00	06 EC A9 7E 7E 10 AE 7E	6   1   00063	0336 0344
				28 AE 32 55 7E 00 50	'E D4 00074 CLRL -(SP)	
			6A 56 2C 56 60	08 AE 26 01	E 3C 00088	0345 0346 0324 0355
		51	50 56 60	68 68 02 51 7E 7E 10 <u>A</u> E	E 7C 0009D CLRQ -(\$P) ; ( E 7C 0009F CLRQ -(\$P) ; E 9F 000A1 PUSHAB NCBDSC ;	0356
			7E	7E 7E 0132 8F 55 7E 0C 56	E 7C 000A4	
			6 <b>A</b> 50	56	C FB 000B1	)366 )368

; Routine Size: 184 bytes. Routine Base: \$CODE\$ + 00BA

```
NMLSMAIN
                     Network Management Listener main module 15-Sep-1984 23:57:11 NML_VALIDLINK Version compatibilty check routi 14-Sep-1984 12:50:12
                                                                                                                     VAX-11 Bliss-32 V4.0-742 P2
DISK$VMSMASTER:[NML.SPC]NMLMAIN.B32;1
V04-000
                    0369
0370
0371
0372
0373
0374
   375
376
377
                               *SBTTL 'NML_VALIDLINK Version compatibilty check routine'
                                ROUTINE NML_VALIDLINK =
                                  FUNCTIONAL DESCRIPTION:
    380
   381
                                          The process attempting to connect to NML must pass an NCB which, in the optional data field, contains a NICE version number. This is
                     0376
0377
0378
0379
   382
383
                                          the version of NICE which the process expects to use in communicating
   384
385
386
388
388
389
                                          with NML. This routine examines the version number to make sure it is compatible with those versions of NICE spoken by this version of NML.
                     0380
                     0381
                                  IMPLICIT INPUTS:
                     0382
0383
                                          NML$A_NCBDATA contains the pointer to the NCB from NCP.
   390
391
                     0384
0385
                                  IMPLICIT OUTPUTS:
   392
393
                     0386
0387
                                          NML$AB_RCVBUFFER contains the received NCB.
                                          NML$L_CMDNCBLEN contains the length of the received NCB.
                     0388
0389
   394
                                          NML$A_NCBDATA contains the pointer to the optional NCB connect data
   395
                                                     in NML$AB_RCVBUFFER.
   396
397
                    0390
0391
0392
0393
0394
0395
0396
0397
0398
                                  ROUTINE VALUE:
                                  COMPLETION CODES:
   399
   400
                                          If receive Network Management version number is not greater
   401
                                          than or equal to our own then NML$_STS_MVE is returned otherwise
   403
405
406
407
408
410
                                          success (NML$_STS_SUC).
                             1 !--
                     0400
                               BEGIN
                     0401
0402
0403
0404
0405
                               LOCAL
                                     NCP_VERSION : VECTOR [3,BYTE];
                                                                                     ! Command node NICE version number
   411
                     0406
0407
   412
                                  find optional data in NCB (two bytes past '/' character)
                               0408
   414
                     0409
0410
0411
   415
   416
   417
                     0412
   418
                               IF NOT CHSFAIL (.NMLSA_NCBDATA) THEN
                                     NML$A_NCBDATA = .NML$A_NCBDATA + 3 ! Skip '/' and two bytes
                     0414
0415
0416
0417
0418
   420
421
422
423
424
425
426
427
428
429
                               ELSE
                                     RETURN NML$_STS_MPR;
                                                                          ! Return error
                                  Compare received version with our own. Value greater than or equal
                                  is successful (Phase III). Less than three bytes of optional data or value less than our own but not version 2.0.0 or 3.0.0 fails.
                     0419
                     0420
0421
0422
0423
                               IF CHSRCHAR (.NMLSA_NCBDATA) EQLU O THEN
                                        If no version number in the NCB, assume Phase II, NICE V1.3.0.
                     0424
   431
                                     BEGIN
```

Page 14

```
G 14
Network Management Listener main module 15-Sep-1984 23:57:11
NML_VALIDLINK Version compatibilty check routi 14-Sep-1984 12:50:12
NMLSMAIN
                                                                                                                     VAX-11 Bliss-32 V4.0-742 PRIDISK$VMSMASTER: [NML.SRC]NMLMAIN.B32;1
V04-000
                     0426
0427
0428
0429
0430
                                     CH$MOVE (3, UPLIT BYTE(1,3,0), NCP_VERSION);
   END
                               ELSE
                                     BEGIN
                                     IF CHSRCHAR (.NMLSA NCBDATA) EQLU 3 THEN
                                           CH$MOVE (3, .NME$A_NCBDATA+1, NCP_VERSION)
                                           RETURN NML$_STS_MVE;
                               IF NMLSINITIALIZE (NCP_VERSION) THEN
                                     RETURN NMLS_STS_SUC
                               ELSE
                                     RETURN NML$_STS_MVE;
   445
                     0439
                               END:
                                                                           ! End of NML_VALIDLINK
                                                                                                   .PSECT $PLIT$,NOWRT,NOEXE,2
                                                                                00022 P.AAH:
                                                                                                             1, 3, 0
                                                                     03
                                                                          01
                                                                                                   .BYTE
                                                                                                   .PSECT
                                                                                                             $CODE$, NOWRT, 2
                                                                         0004 00000 NML_VALIDLINK:
                                                                                                                                                                           0370
                                                                                                   .WORD
                                                                                                             Save R2
                                                   52
5E
50
A2
                                                                                                             NML$A_NCBDATA, R2
M4, SP
NML$A_NCBADDRESS, R0
M47, NML$L_CMDNCBLEN, (R0)
                                                       00000000
                                                                            9E
C2
D0
3A
12
                                                                                                   MOVAB
SUBL 2
                                                                      042F221153004
                                                                                00009
                                                                                00000
                                                                FC
                                                                                                                                                                           0409
                                                                                                   MOVL
                                 60
                                             F4
                                                                                00010
                                                                                                                                                                           0408
                                                                                                  LOCC
                                                                                00015
                                                                                                  BNEQ
                                                                                00017
                                                                                                   CLRL
                                                                            DQ
13
                                                    62
                                                                                00019 15:
                                                                                                   MOVL
                                                                                                             R1, NML$A_NCBDATA
                                                                                0001C
                                                                                                                                                                           0412
0413
                                                                                                  BEQL
                                                                            ĊŌ
11
                                                    62
                                                                                0001E
                                                                                                   ADDL2
                                                                                                                  NML$A_NCBDATA
                                                                                00021
                                                                                                  BRB
                                                                               00023 2$:
00026
00027 3$:
                                                                      ŎÀ
                                                    50
                                                                                                   MNEGL
                                                                                                             #10, R0
                                                                                                                                                                           0415
                                                                                                   RET
                                                    50
                                                                      62
60
08
00
60
60
                                                                                                   MOVL
                                                                                                             NML$A_NCBDATA, RO
                                                                                                                                                                           0421
                                                                           95
12
F0
11
91
12
F0
                                                                                0002A
                                                                                                   TSTB
                                                                                                             (R0)
                                                                                0002C
                                                                                                  BNEQ
                                                                               0002E
00037
                                                                                                                                                                          0426
0421
0430
              6E
                                 18
                                                    00 00000000
                                                                                                   INSV
                                                                                                             P.AAH, WO, W24, NCP_VERSION
                                                                                                  BRB
                                                                                00039 45:
                                                    03
                                                                                                             (RO), #3
                                                                                                   CMPB
                                                                      16
A0
                                                                                00030
                                                                                                             6$
1(RO), #0, #24, NCP_VERSION
                                                                                                  BNEQ
              6E
                                 18
                                                                01
                                                                                0003E
                                                    00
                                                                                                   INSV
                                                                                                                                                                          0431
                                                                      5E
01
50
01
                                                                            DĎ
                                                                                                                                                                          0435
                                                                                00044 58:
                                                                                                  PUSHL
                                                                            FB
E9
D0
                                                                                00046
                                     0000000G
                                                                                                                  NML$INITIALIZE
                                                                                                   CALLS
                                                    Ŏ4
                                                                                0004D
                                                                                                             RO, 6$ #1, RO
                                                                                                  BLBC
                                                    50
                                                                                00050
                                                                                                                                                                          0438
                                                                                                   MOVL
                                                                                                  RET
                                                                                00054 6$:
                                                                                                  MNEGL
                                                    50
                                                                                                             #14, RO
                                                                                                  RET
                                                                                                                                                                          0439
```

; Routine Size: 88 bytes, Routine Base: \$CODE\$ + 0172

NM VO

```
Network Management Listener main module 15-Sep-1984 23:57:11 NML_GETMODE Determine the mode in which NML is 14-Sep-1984 12:50:12
NMLSMAIN
                                                                                                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 Particle Parti
V04-000
        444901233456789
44456789
                                                                  1 %SBITL 'NML_GETMODE Determine the mode in which NML is running' 1 ROUTINE NML_GETMODE : NOVALUE =
                                                 0441
                                                0442
                                                 0444
                                                                              FUNCTIONAL DESCRIPTION:
                                                 0445
                                                                                                 This routine determines the mode in which NML is running by
                                                 0446
                                                                                                 determining how the image was activated. NML runs one of in two
                                                 0447
                                                                                                 modes:
                                                                                                                        Communicating with NCP on a remote node via a logical link, processing NICE commands.

In autoservice mode - doing down line loads and loopback functions requested by other nodes using the MOP
                                                 0448
                                                 0449
                                                0450
                                                0452
0453
0454
0455
                                                                                                                                                  protocol.
         460
         461
                                                                              FORMAL PARAMETERS:
        462
463
                                                 0456
                                                                                                 NONE
                                                0457
         464
                                                0458
0459
         465
                                                                               IMPLICIT INPUTS:
         466
         467
                                                0460
                                                                                                 NONE
        468
                                                0461
        469
                                                0462
                                                                               IMPLICIT OUTPUTS:
       471
472
473
474
475
                                                0464
                                                                                                 NML$B_MODE contains the mode in which NML is running.
                                                0465
                                                                                                                         (it may be unchanged if we cannot determine the mode)
                                                0466
                                                0467
                                                                              ROUTINE VALUE:
                                                0468
                                                                               COMPLETION CODES:
                                                0469
        477
                                                0470
                                                                                                NONE
        478
                                                0471
        479
                                                0472
                                                                              SIDE EFFECTS:
                                                0473
        480
        481
                                                0474
                                                                                                 NONE
        482
483
                                                0475
                                                0476
        484
                                                0477
        485
                                                0478
                                                                                    BEGIN
        486
                                                0479
        487
                                                0480
                                                                                    LOCAL
                                                0481
        488
                                                                                                 STATUS:
                                                                                                                                                                                                   ! Temporary status
                                                0482
0483
         489
        490
                                                0484
        491
                                                                              Get optional connect data or service circuit name by translating SYS$NET
        492
493
                                                0485
                                                                                    STATUS = $TRNLNM (ATTR = UPLIT (LNM$M_CASE_BLIND),
TABNAM = %ASCID 'LNM$PROCESS_TABLE',
LOGNAM = %ASCID 'SYS$NET',
                                                0486
        494
                                                0487
                                                0488
                                                                                                                                           LOGNAM = XASCID 'STSDMET,

ITMLST = UPLIT (WORD (nml$k_rcvbflen),

WORD (lnm$_string),

LONG (nml$ab_rcvbuffer),
        496
                                                0489
                                                0490
         498
                                                0491
         499
                                                0492
                                                                                                                                                                                            LONG (nml$l_cmdncblen),
                                                0493
         500
                                                                                                                                                                                            LONG (0))
         501
                                                 0494
                                                                                     IF .. STATUS EQLU SS$_NORMAL
        502
503
                                                 0495
                                                 0496
                                                                                     THEN
```

NP VC

NML \$MAI V04-000 : 504 : 505 : 506 : 507 : 508 : 510 : 511 : 512 : 513	N		Net NML 0499 0500 0500 0500 0500 0500 0500 0500	)7 )8 )9 )0 )1 )2 )3	K Mar IMODE		BEGIN Since from NML\$B NML\$A END;	ce SY m an _MODE	S\$NET NCP o = NM	trai n a (	nslat remot ONNE(	es, e n	NML wode.	as activ ER; ! In	,	a connect request  NCB pointer	18 8)
42 41	54	5F	53	53	45		4F 57	00	00	53 00 00 53 00	10E00 00000 10E00 00000	441 1003 1003 1000 1000 1000 1000	00040 00044 00048 00050 00054	P.AAI: P.AAK: P.AAJ: P.AAL: P.AAN:	.ASCII .LONG .ADDRES .WORD .WORD .ADDRES	\$PLIT\$,NOWRT,NOEXE,2  3 33554432 \LNM\$PROCESS_TABLE\<0><0> 17694737 S P.AAK \SYS\$NET\<0> 17694727 S P.AAM 512 S NML\$AB_RCVBUFFER S NML\$L_CMDNCBLEN 0  SYS\$TRNLNM \$CODE\$,NOWRT,2	
						0000	0000G 0C	53 52 00 01 63 A3	00000	000° 000° F8 E8 D0	00000000000000000000000000000000000000	9E D D D 4 F F B D 1 2 O T P D	00000 00002 00009 00010 00012 00014 00017 00018 00024 00027 00029 00020 00031			Save R2,R3 NML\$B_MODE, R3 P.AAN, R2 R2 -(SP) P.AAL P.AAJ P.AAI #5, SYS\$TRNLNM STATUS, #1 1\$ #1, NML\$B_MODE NML\$AB_RC\(\bar{V}\)BUFFER, NML\$A_NCBADDRESS 056	94 95 02

; Routine Size: 50 bytes,

Routine Base: \$CODE\$ + 01CA

```
K 14
NML SMAIN
                                                                      15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
                  Network Management Listener main module
                                                                                                 VAX-11 Bliss-32 V4.0-742
                                                                                                                                         Page
V04-000
                 NML_RECEIVE Network receive routine
                                                                                                 DISKSVMSMASTER: [NML.SRC]NMLMAIN.B32:1
   515
                          *SBTTL 'NML_RECEIVE Network receive routine'
                  0508
   516
                          ROUTINE NML_RECEIVE (BUFADR, BUFLEN, RCVLEN) =
   517
                  0509
                  0510
   518
                        1
   519
                  0511
                            FUNCTIONAL DESCRIPTION:
                 0512
0513
   This routine receives NICE protocol messages over a logical link
                 0514
0515
                                   from a command process (generally NCP).
                 0516
0517
                            FORMAL PARAMETERS:
                  0518
                                   BUFADR
                                                     Address of the receive buffer.
                  0519
                                   BUFLEN
                                                     Length of the receive buffer.
                  0520
                                   RCVLEN
                                                     Actual length of the received data if successful.
                  0521
                 0522
0523
                             IMPLICIT INPUTS:
                 0524
0525
                                   NML$W_CMD_CHAN Channel assigned to the command process link.
                 0526
0527
0528
                             IMPLICIT OUTPUTS:
                                   The buffer pointed to by BUFADR contains the received data.
                 0529
0530
                             ROUTINE VALUE:
                  0531
                             COMPLETION CODES:
                 0532
0533
                                   System service completion status is returned if receive fails
                                   indicating that the link has been terminated for some reason.
                  0534
                  0535
                                   Otherwise success is returned.
                  0536
                 0537
                            SIDE EFFECTS:
                 0538
                 0539
                                   NONE
                 0540
                 0541
                 0542
0543
0544
0545
                              BEGIN
                               LOCAL
                  0546
                                   RCV IOSE : $10SB.
                                                                                 Receive I/O status block
                  0547
                                   STATUS:
                                                                               ! Temporary status
                 0548
                 0549
                            Receive a NICE message
                  0550
                 0551
                               STATUS = $010W (FUNC = 10$ READVBLK)
                                                                                 function
                 0552
0553
   560
                                                CHAN = .NMESW_CMD_CHAN,
                                                                                 Channel
   561
                                                IOSB = RCV_IOSB
                                                                                 I/O status block
   562
563
                 0554
                                                     = .BUFADR,
                                                                                 Buffer address
                  0555
                                                      = .BUFLEN):
                                                                                 Buffer length
   564
565
                 0556
0557
                            If system service completed successfully get network status
   566
567
                  0558
                 0559
                               IF .STATUS
   568
569
570
                  0560
                               THEN
                  0561
                                   STATUS = .RCV_IOSB [IOS$W_STATUS];
                 0562
   571
                            If network status is success then get received message length
```

VC

```
_
                                                                                                15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
                         Network Management Listener main module NML_RECEIVE Network receive routine
                                                                                                                                   VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[NML.SRC]NMLMAIN.B32;1
 NMLSMAIN
 V04-000
     572
573
                         0564
0565
                                           IF .STATUS
                        0566
0567
0568
0569
     574
575
                                           THEN
                                                 .RCVLEN = .RCV_10SB [IOS$W_COUNT];
                                                                                                         ! Return received data length
     576
577
                                           RETURN .STATUS
                                                                                                            ! Return status code
     578
579
                         0570
                         0571
                                           END:
                                                                                                            ! End of NML$RECEIVE
                                                                                   0000 00000 NML_RECEIVE:
                                                                                                               .WORD
                                                                                                                           Save nothing
                                                                                                                                                                                               0508
                                                                                     C2 00002
7C 00005
                                                                                                                          #8, SP
-(SP)
                                                           5E
                                                                                                               SUBL 2
                                                                                7E
7E
                                                                                                               CLRO
                                                                                                                                                                                               0555
                                                                                     70 00007
                                                                                                               CLRQ
                                                                                                                           -(SP)
                                                           7E
                                                                        04
                                                                                     7D 00009
                                                                                                               MOVQ
                                                                                                                           BUFADR, -(SP)
                                                                                7E3107050
                                                                                     7C 0000D
                                                                                                               CLRQ
                                                                                                                           -(SP)
                                                                                     9F 0000F
                                                                                                                          RCV_IOSB
                                                                        20
                                                                                                               PUSHAB
                                                                                     DD 00012
3C 00014
                                                                                                               PUSHL
                                                           7E 00000000'
                                                                                                                           NML$W_CMD_CHAN, -(SP)
                                                                                                               MOVZWL
                                                                                                              CLRL -(SP)

CALLS #12, SYS$QIOW

BLBC STATUS, 1$

MOVZWL RCV_IOSB, STATUS

BLBC STATUS, 1$

MOVZWL RCV_IOSB+2, aRCVLEN
                                                                                      D4 0001B
                                                                                     FB 0001D
E9 00024
3C 00027
E9 0002A
3C 0002D
                                           0000000G
                                                                                                                                                                                              0559
0561
0565
0567
0571
                                                           0B
50
05
                                                                                6Ĕ
50
                                                                        02
                                                    00
                                                           BC
                                                                                ΑE
                                                                                      04 00032 18:
                                                                                                               RET
 : Routine Size: 51 bytes.
                                             Routine Base: $CODE$ + 01FC
```

NM

VC

**:** 580 057∠ 1

```
NP
V(
```

```
15-Sep-1984 23:57:11
14-Sep-1984 12:50:12
                                                                                                                  VAX-11 Bliss-32 V4.0-742 Page 21 DISK$VMSMASTER:[NML.SRC]NMLMAIN.B32;1 (10)
NMLSMAIN
                    Network Management Listener main module
V04-003
                    NML_RESPONSE Network response routine
   582
583
584
                           1 %SBTTL 'NML_RESPONSE Network response routine'
1 ROUTINE NML_RESPONSE (BUFDESC): NOVALUE =
                    0574
0575
0576
0577
0578
    585
   586
587
588
590
591
593
596
596
597
                                         This routine is called to process a NICE response as a result
                                         of processing a NICE message. This routine may be called as
                    0580
0581
0582
0583
0584
0586
0586
0588
0589
0591
                                         many times as necessary during the processing of a single NICE
                                         message.
                                 Inputs:
                                         bufdesc
                                                              Address of descriptor of message to be transmitted.
                                         nml$w_cmd_chan Channel assigned to the command process link.
    598
                                 Outputs:
    599
   60C
                                         Returns success. Errors are signalled.
                    0592
0593
0594
0595
0596
0597
   601
   602
                               BEGIN
   604
   605
   606
                                    bufdesc:
                                                    REF BLOCK [.BYTE]:
                                                                                   ! Address of descriptor
   607
                     0599
   608
                              LOCAL
                     0600
   609
                                    snd_iosb : $10SB,
                                                                                   ! Send I/O status block
                     0601
                                                                                   ! Temporary status
   610
                                    status:
                    0602
0603
   611
   612
                    0604
                                 Send the NICE response message
                    0605
   614
   615
                    0606
   616
                  P 0607
                               status = $QIOW (FUNC = 10$_WRITEVBLK,
   617
                    0608
                                                         CHAN = .nml$w_cmd_chan,
                                                         IOSB = snd_iosb,
P1 = .bufdesc [dsc$a_pointer],
P2 = .bufdesc [dsc$w_length]);
   618
                    0609
   619
                    0610
   620
621
623
624
625
626
627
628
                     0611
                    0612
0613
                                  If system service was successful then get network status
                     0614
                    0615
0616
0617
                               IF .STATUS
                     0618
                                    STATUS = .SND_IOSB [ICS$W_STATUS];
                     0619
   629
                     0620
   630
                     0621
                                 If status is bad then signal the error.
                    0622
0623
0624
0625
   631
   633
                               IF NOT .STATUS
   634
                    0626
0627
   635
                                    SIGNAL_STOP (.STATUS);
   636
```

0628

1 END:

637

NML\$MAIN V04-000

N 14 15-Sep-1984 23:57:11 14-Sep-1984 12:50:12

OOOO OOOOO NMI RESPONSE.

			(		00000	NML_KESPUNSE:		
						.WORD	Save nothing	; 0574
	5E		08	ζŽ	00005	SUBL 2	#8, SP	
			7 <u>E</u>	<u>7</u> C	00005	CLRQ	-(\$P)	; 0611
		•	7E	7,0	00007	CLRQ	-(SP)	;
	50 7E	04	ĄÇ	DO	00009	MOVL	BUFDESC, RO	•
	/E		60	<b>3</b> C	00000	MOVZW	. (RO), -(SP)	
		04	ΑO	DD	00010	PUSHL	4(R0)	•
			7E	7C	00013	CLRQ	-(SP)	•
		20	ΑĘ	9F	00015	PUSHA		•
	_		30	DD		PUSHL	<b>#48</b> <sup>-</sup>	
	7E	00000000	<u>0</u> 0	<b>3</b> C	0001A	MOVZW		•
			7E	<b>D4</b>	00021	CLRL	-(SP)	•
0000000G	00		O.C	FB	00023	CALLS	#12, SYS\$QIOW	:
	06		50 6E 50	E 9	0002A	BLBC	STATUS, 1\$	: 0616
	50 09		6E	<b>3</b> C	0002D	MOVZW	SND IOSB. STATUS	: 0618
	09		50	ES	00030	BLBS	STATUS, 2\$	: 0624
			50	DD	00033	1\$: PUSHL	STATUS	; 0616 ; 0618 ; 0624 ; 0626
0000000G	00		01	FB	00035	CALLS	#1, LIB\$STOP	
				04	0003C	2\$: RET	•	; 0628
								· · · · · · · · · · · · · · · · · · ·

; Routine Size: 61 bytes, Routine Base: \$CODE\$ + 022F

NJ V(

ML\$MAIN /04-000 639 640	Network Management Lis NML_RESPONSE Network r 0629 1 END 0630 0 ELUDOM	tener main rodu esponse routine	le	B 15 15-Sep-198 14-Sep-198 ! End of m	34 23:57:11 34 12:50:12 nodule	VAX-11 Bliss-32 V4.0-742 Page 2: DISK\$VMSMASTER:[NML.SRC]NMLMAIN.B32;1 (11	
		PSECT SUMMARY			.EXTRN LIBS	STOP	
Name	Bytes			Attributes			
SPLITS SOWNS SCODES		104 NOVEC, NOWR 540 NOVEC, WR 620 NOVEC, NOWR	T. RD . T. RD . T. RD .	NOEXE, NOSHR, NOEXE, NOSHR, EXE, NOSHR,	LCL, REL, LCL, REL, LCL, REL,	CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)	
	Librar	y Statistics					
File		Total	Symbols Loaded	Percent	Pages Mapped	Processing Time	
_\$255\$DUA28: _\$255\$DUA28: _\$255\$DUA28: _\$255\$DUA28:	:[NML.OBJ]NMLLIB.L32;1 :[SHRLIB]NMALIBRY.L32;1 :[SHRLIB]NET.L32;1 :[SYSLIB]STARLET.L32;1	341 887 1279 9776	15 1 0 18	4 0 0 0	27 47 63 581	00:00.1 00:00.2 00:00.3 00:03.3	

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: NMLMAIN/OBJ=OBJ\$: NMLMAIN MSRC\$: NMLMAIN/UPDATE=(ENH\$: NMLMAIN)

; Size: 620 code + 644 data bytes ; Run Time: 00:16.8 ; Elapsed Time: 00:41.9 ; Lines/CPU Min: 2255 ; Lexemes/CPU-Min: 14233 ; Memory Used: 101 pages ; Compilation Complete

0284 AH-BT13A-SE

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